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green, black-and-yellow-spotted caterpillars of the beautiful black yellow-spotted swallow-tail butterfly.

The Lepidoptera and Coleoptera take the lead in the number of destructive species, and it is hard to say which works most damage, as most of our cultivated plants appear to have enemies in both ranks, though the potato and sweet-potato are especially affected by beetles, and the cabbage and fruit-trees generally, by caterpillars. The Hemiptera, with Phylloxera, the Chinch-bug and the aphides, come next in destructive powers; the Diptera contribute several species, the Hymenoptera, though principally beneficial to man, furnish him with saw-fly enemies; and the one destructive locust enumerated is a host in himself. The work is printed in clear type and forms in all respects an attractive volume. —*W. N. L.*

U. S. FISH COMMISSION REPORT FOR 1879.—This stout volume is full of good material, whether piscicultural or zoölogical or botanical. Several excellent papers, purely scientific and yet of value in the connection in which they appear, are sandwiched in between the commissioner's own report and the chapters relating to fish-culture. The most important of these, and abundantly illustrated with excellent wood-cuts, are Professor W. G. Farlow's Marine Algæ of New England, and Professor A. E. Verrill's report on the Cephalopods of the north-eastern coast of America. A large proportion of the volume is devoted to translations from European authors, which will undoubtedly prove useful to pisciculturists in this country, though there are chapters by H. W. Mason, Livingston Stone and Charles G. Atkins on the propagation of salmon. These reports are doing great good in both a practical and scientific direction.

RECENT BOOKS AND PAMPHLETS.—A system of Human Anatomy, including its medical and surgical relations. By Harrison Allen, M.D. Section I. Histology, by E. O. Shakspeare, M.D. Section II. Bones and Joints, by H. Allen, M.D. Philadelphia, 1882. From the author.

United States Commission of Fish and Fisheries. Report of the Commissioner for 1879. Washington, 1882. From the department.

The Mongoose on sugar estates in the West Indies. By D. Morris, M.A. Kingston, Jamaica, 1882. From the author.

Official Report on the Creston group of mines in the State of Durango, Mexico. By Professor Adolphe Rock. Philadelphia, 1882.

On Fishes Tails. By E. T. Newton, F.G.S. Reprint from the Journal of the Quekett Microscopical Club. London, 1882. From the author.

Camps in the Caribbees. The adventures of a naturalist in the Lesser Antilles. By Fred'k A. Ober. Boston, 1880.

Thèses présentées à la Faculté des Sciences de Lille, Université de France, pour obtenir le grade de Docteur ès Sciences Naturelles. Par Persifor Frazer, A.M., de Philadelphie. 1re Thèse: Memoire sur la Geologie de la parti sud-est de la Pennsylvanie. 2me Thèse: Propositions données par la Faculté. Lille, 1882. From the author.

Report of Proceedings of the National Academy of Sciences, from Nov. 16, 1880, to the close of the year 1881.

National Academy of Sciences, Constitution and Membership. Washington, 1882. From the society.

Cacao: How to Grow and how to Cure it. By D. Morris. M.A. Kingston, Jamaica, 1882. From the author.

Über eine neue Eremias-Art aus dem Thal des Krododil-flusses in Transvaal. Von Dr. Franz Steindachner. Aus dem LXXXV Bande der Sitzb. der k. Akad. der Wissensch., 1 Abth., 1882. From the author.

Batrachologische Beiträge. Von Dr. Franz Steindachner. Aus dem LXXXV Bande der Sitzb. der k. Akad. der Wissensch., 1882. From the author.

The Channel Tunnel. By Professor Boyd Dawkins, M.A. Ext. from the Trans. Manchester Geological Society, 1882. From the author.

The American Journal of Forestry. Edited by Franklin B. Hough. Cincinnati, Oct., 1882. From the editor.

Notice sur les espèces du genre *Philothamnus*, qui se trouvent au Muséum de Lisbonne. Par J. V. Barboza de Bocage; also, by the same author: Aves das possessões portuguezas da Africa occidental; and Liste des Mammifères envoyés de Caconda (Angola) par M. D'Anchieta. Extracto de Jornal de Sciencias Mathematicas, Physicas e Naturaes, Ne XXXIII. Lisboa, 1882. From the author.

Descriptions of ten new species of *Monticulipora* from the Cincinnati group, Ohio. Index, etc. By U. P. James. Cincinnati, 1882. From the author.

Jamaica. Annual Report of the Public Gardens and Plantations for the year ending 30th Sept., 1881. By D. Morris, director. Kingston, Jamaica, 1882. From the author.

Beiträge zur Paläontologie Oesterreich-Ungarns, und des Orients, herausgegeben Von E. v. Mojsisovics und M. Neumayr. Wien, 1882. Der jungtertiäre Fisch-fauna Croatiens. Von Drag. Kramberger-Gorjanovic. Beiträge zur Kenntniss der fossilen Diatomeen Oesterreich-Ungarns. Von A. Grunow.

Brief mention of some of the men who aided in developing the science of geology in America. Descriptions of three new species of fossils, and remarks upon others. By S. A. Miller. Description of a new species of *Bourguetocrinus*. By P. de Loriol, etc., etc. From the Jour. Cin. Soc. Nat. Hist., Oct., 1882. From S. A. Miller.

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GENERAL NOTES.

BOTANY.¹

NEW SPECIES OF NORTH AMERICAN FUNGI.—*Diplodia Pyri* E. and M.—Spots, light brown, small, border nearly obsolete; perithecia black, scattered, mostly epiphyllous; spores oval, brown, $24-25 \times 9-12 \mu$. On living lvs. of *Pyrus malus*. Newfield, N. J., Sept., 1882.

Septoria Silenes E. and M.—Spots small, light yellow; perithecia brownish-yellow, soft, innate, scattered, 56μ . diam.; spores yellowish, cylindrical, curved, triseptate, $48 \times 3 \mu$. On living leaves of *Silene stellata*, Chester Co, Pa. Dr. Martin.

Septoria psilostega E. and M.—Spots golden yellow, mostly occupying the margin of the leaf; perithecia hypophyllous, scattered, yellow, very delicate, exuding a mass of amber colored spores which viewed separately are subhyaline, filiform, straight or curved, faintly triseptate, $60 \times 3 \mu$. On lvs. of *Galium pilosum*.

Septoria Smilacinae E. and M.—Spots gray, oblong, border broad, dark-pink; perithecia light-brown, conoid, mostly epiphyll-

¹Edited by PROF. C. E. BESSEY, Ames, Iowa.